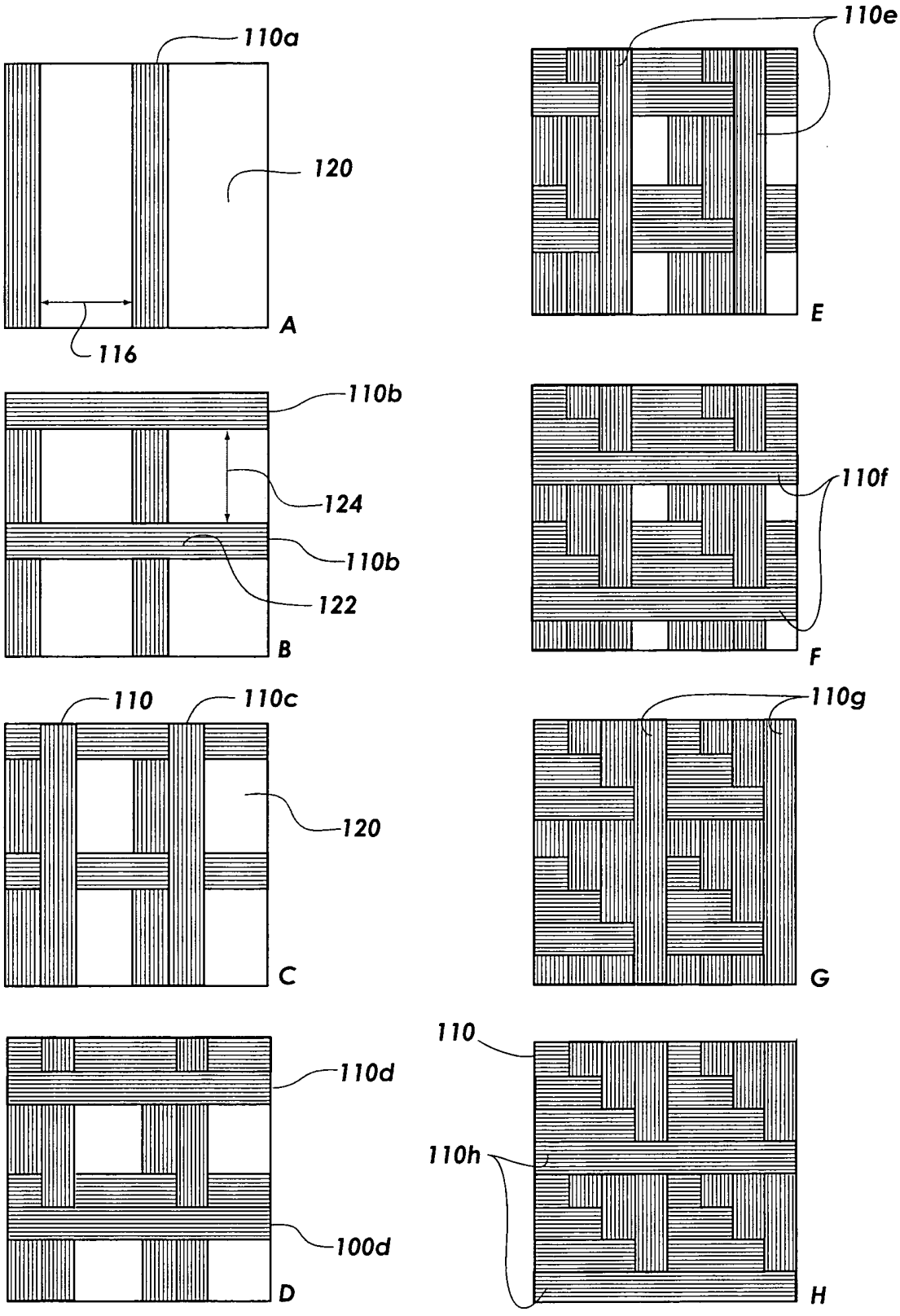
110a
120
116
A
110e
E
110b
124
110b
122
B
110f
F
110
110c
120
C
110g
G
110d
100d
D
110
110h
H

FIG. 1

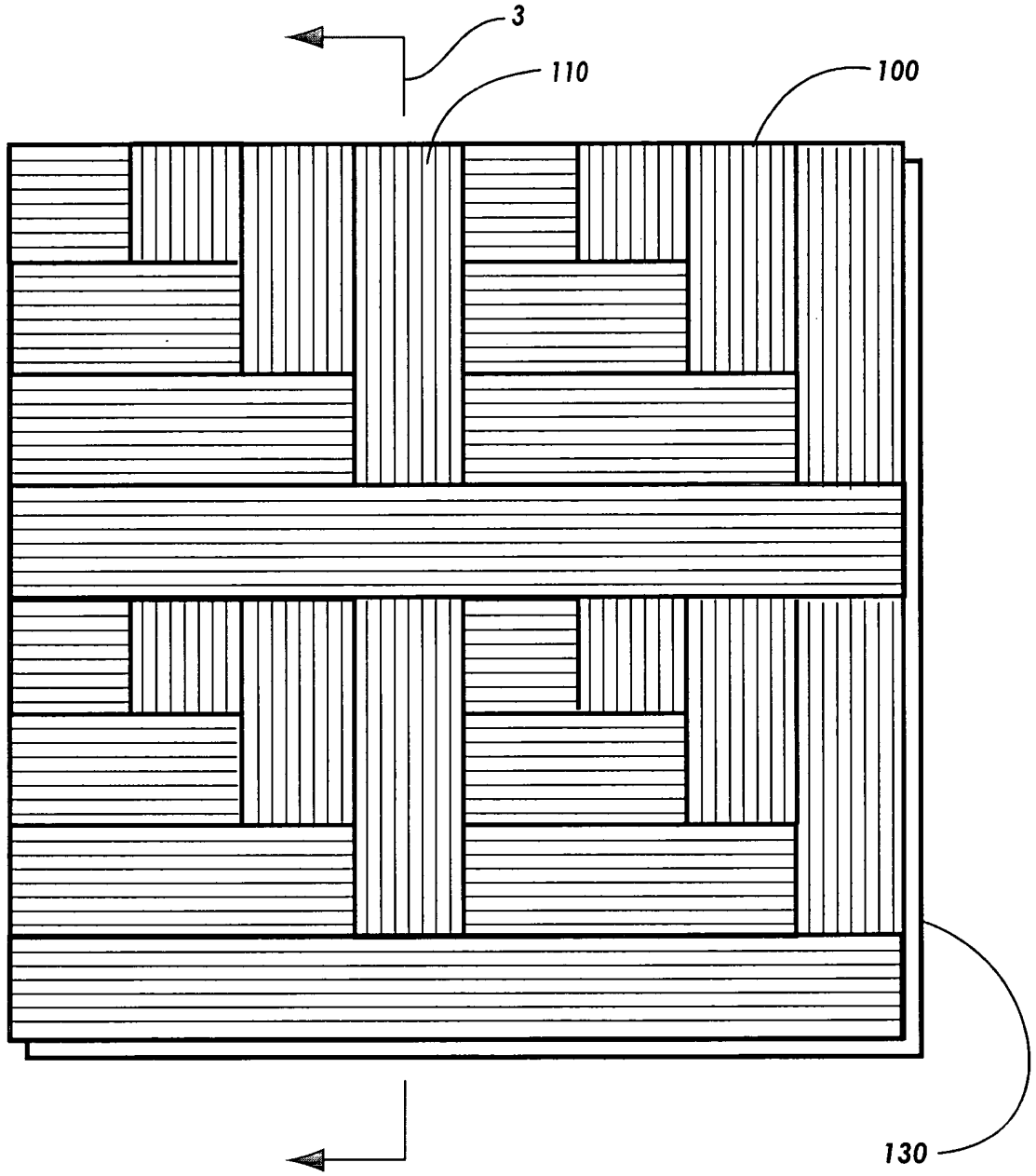

FIG. 2

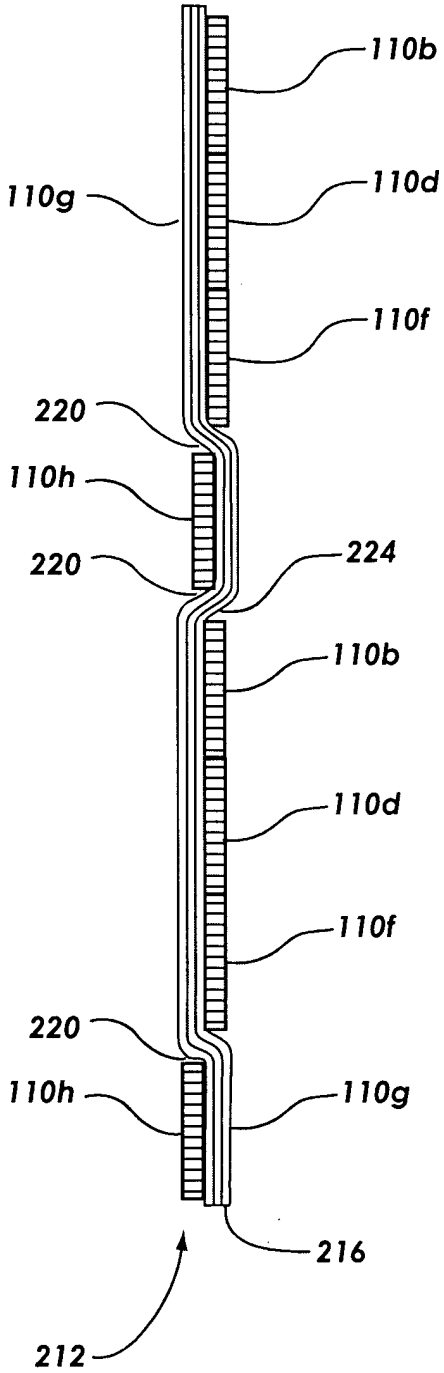
110b
110g
110d
110f
220
110h
220
224
110b
110d
110f
220
110h
110g
216
212

FIG. 3

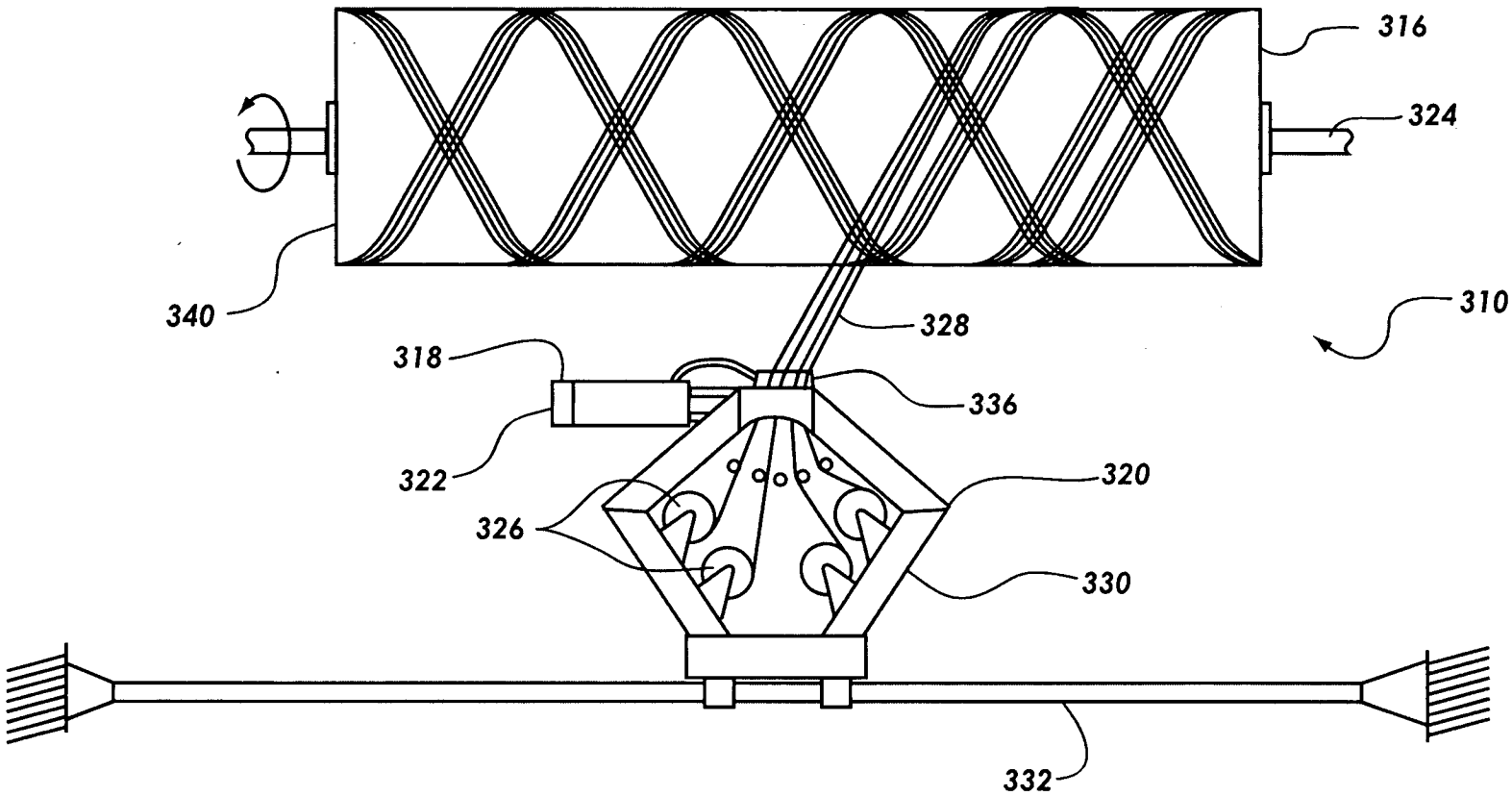

FIG. 4

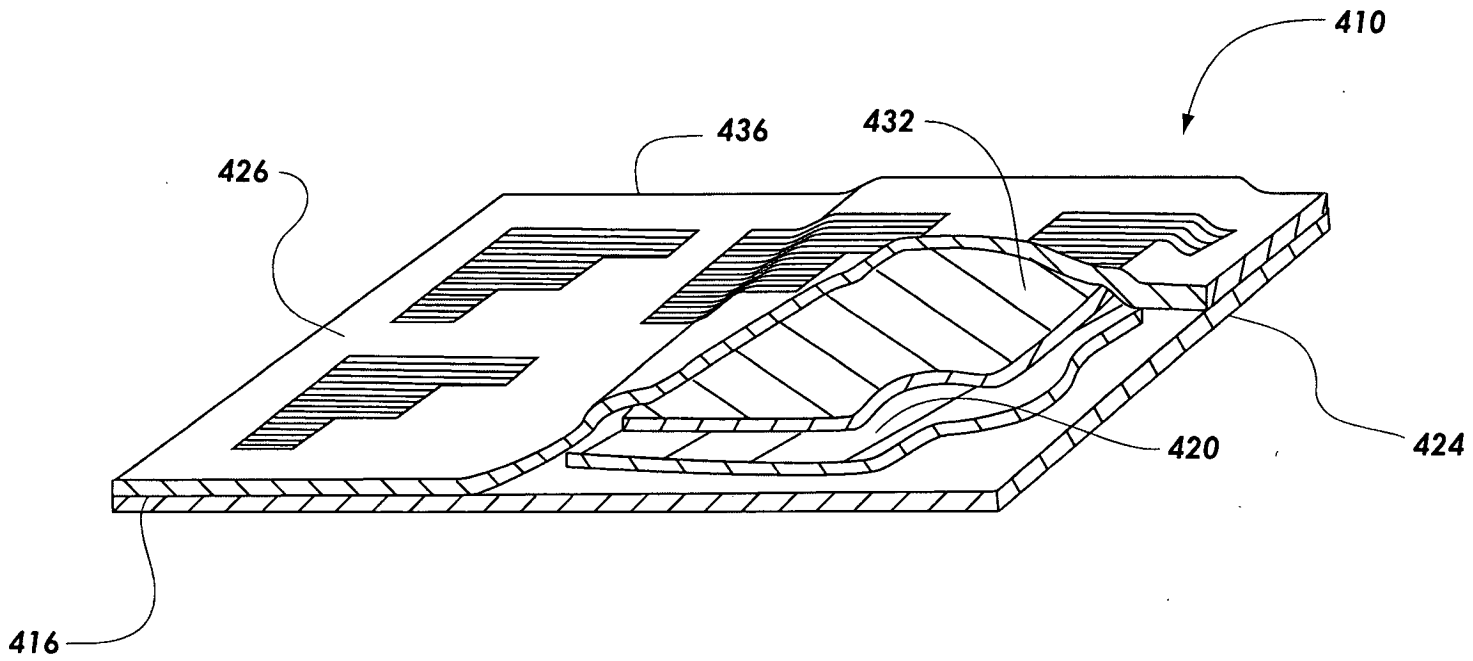

FIG. 5

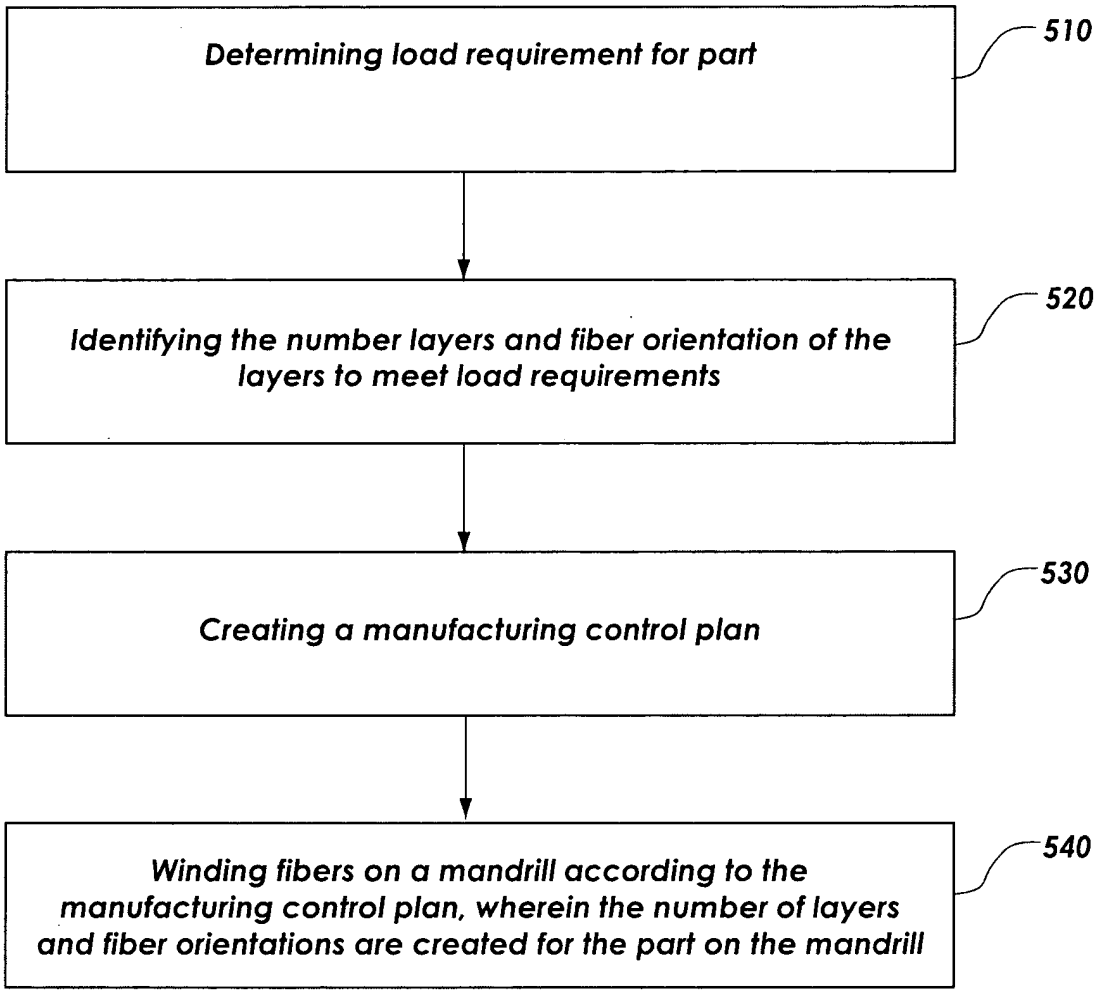
Determining load requirement for part
510
Identifying the number layers and fiber orientation of the layers to meet load requirements
520
Creating a manufacturing control plan
530
Winding fibers on a mandrill according to the manufacturing control plan, wherein the number of layers and fiber orientations are created for the part on the mandrill
540

FIG. 6